

Cebero Seeds B.H.

LICITERS, THERE HAS BEEN PRESENTED TO THE

## Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC **REPLEXISHMENT** OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY  $\operatorname{LAW}$ , THE SHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR RTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PBY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321

PEA FIELD

'Tudor'

In Testimonn Murror, I have hereunto set my hand and caused the seal of the Mant Unristy Hrutection Office to be affixed at the City of Washington, D.C. this fifteenth day of Warch, in

Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.

ATURE OF OWNER

SIGNATURE OF OWNER

SIGNATURE OF OWNER

FIG. BOX 10000

NAME (Please print or type)

NAME (Please print or type)

ACITY OR TITLE

DATE

CAPACITY OR TITLE

DATE

VARIETY REGISINATION

22/3/2004

70 (02-10-2003) designed by the Plant Variety Protection Office using Word 2000. Replaces former versions of ST-470, which are obsolete.

See reverse for instructions and information collection burden stateme

RAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed tion form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it roduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 e and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the ition are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials e corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

Sive:

(1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;

(2) the details of subsequent stages of selection and multiplication;

(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified (3) evidence of uniformity and stability; and

Sive a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:

(1) identify these varieties and state all differences objectively;

(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and

(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.

Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.

Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease

Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.

If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).

See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.

See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety aluding any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

. CONTINUED FROM FRONT (Please give the country, date of filling or issuance, and assigned reference number, if the variety or any component of the riety is protected by intellectual property right (Plant Breeder's Right or Patent).) WK S2

OTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's presentative during the life of the application/certificate. There is no charge for filling a change of address. The fee for filling a change of ownership or assignment any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the egulations and Rules of Practice.)

o avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and egetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705.

exording to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid CMB control number. The sid CMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing structions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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o file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and

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### **EXHIBIT A**

# Origin and Breeding History of Cebeco 4119 (Tudor) (Pisum sativum L.)

#### 1. Genealogy

Cebeco 4119 is selected out of the following crossing:

92585 \* Eiffel in 1995

92585 = Champagne \* CEB 1136

CEB 1136 = Solara x {(Flavanda x Progreta) x Flavanda}

In 1996 a single plant was selected in the F3, followed by line selection and replicated yield trials.

The breeding process was carried out at our breeding station in Lelystad in the Center of the Netherlands. This station is situated on 150 ha reclaimed land on heavy clay soil and is equipped with all the necessary facilities including lab facilities and greenhouses.

#### 2. Breeding goals

The breeding goals were:

Generation Criteria for selection

F4 plant selection Straw stiffness Plant length

F5 line selection Straw stiffness Maturity

Resistance to - mildew

- Botrytis

Yield

F6 yield trials Straw Stiffness

Seed size

F7 yield trials and further Yield

Protein content



#### **Exhibit A-bis**

Evidence of Uniformity and Stability of Cebeco 4119 ( Tudor ) ( Pisum sativum L.)

Cebeco 4119 is being tested in official DUS trials in the Czech Republic since 2002. Based on the results from these trials the official authorities in the Czech Republic have concluded the following:

- 1. During the testing years no variants were observed, thus confirming the Uniformity of Cebeco 4119.
- 2. Over the years Cebeco 4119 has proven to be a Stable variety.



#### **Exhibit B**

# Statement of Distinctness of Cebeco 4119 (Tudor) (Pisum sativum L.)

Cebeco 4119 has been found Distinct from all other known varieties but is most similar to Cebeco Eclipse. However Cebeco 4119 can be distinguished from Cebeco Eclipse in the characteristics, as described in the following table. All the data in this table have been recorded in trials on our breeding station in Lelystad, the Netherlands.

		Cebeco 4119	Cebeco Eclip	se	
Chara	octer				
TGW	2002 2003	294 294	286 290	Scale: grams/1000 seeds	
Standing ability					
	2002 2003	3.0 2.8	3.8 3.7	Scale: 1=100% standing 9=100% lodged	
Protein content					
	2001 2002	19.7 24.4	21.6 25.4	Scale: %	

Protein Content of Pea is measured by NIRS at our Laboratory in Lelystad. The
equipment used is the Bran & Luebbe InfraLyzer 450 (700-2600 nm), which is a fixed
filter machine. For the protein content calibration of Pea, 4 filters are used. The sample
used is approx. 10 gr. of Pea meal, grinded on a Retch mill at 0.75 mm. The Control
varieties Solara and Baccara are used to correct for year or site interactions. In general
the protein content is calculated on the basis of 4 years of result in 3 replications

#### **Plant Height**

2002	97	85	Scale: Centimeters
2003	111	105	

# Cebero ung = TUDOR

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Number of nodes

Branching: 1 = None (Alaska) 2 = 1-2 Branches (Little Marvel) 3 = More than 2 Branches (Dwarf Gray Suga

Internodes: 1 = Straight 2 = Zig Zag

5. LEAFLETS:
1 = Light Green (Alaska WR) 2 = Medium Green (Thomas Laxton WR) 3 = Dark Green (Alderma Color: 4 = Other (Specify) 5 = Blue Green 6 = Yellow Green 0 = Not Applicable
Wax: 1 = None 2 = Light 3 = Medium 4 = Heavy 0 = Not Applicable  1 = Not Marbled 2 = Marbled (Ala 0 = Not Applicable
Number of Leaflet Pairs: 1 = Not Paired 2 = One 3 = Two 4 = Three or More 0 = Not Applicable
Leaflet Type: 1 = Leafless 2 = Semi 3 = Normal
6. STIPULES:
2 1 = Lacking 2 = Present 1 = Not Clasping 2 = Clasping
Color (Compared with Leaflets): 1 = Lighter 2 = Same 3 = Darker 0 = Not Applicable
Color: 1=Light-Green 2=Medium-Green 3=Dark-Green 4=Blue-Green 5=Yellow-Green 6=Other
Color Chart Value: Select the Color Chart Used to Determine Values.
Royal Horticulture Society Colour Chart Munsell Color Chart Other
2 Stipule Size: 1=Small 2=Medium 3=Large
Please provide comparative varieties (check varieties) and stipule color.
Variety (1) Variety (2) Variety (3)
Variety Name:
Stipule Size:
Color Chart Value:
7. FLOWER COLOR:
Venation  Standard  Wing  Keel 1 = White 2 = Greenish 3 = Lavender 4 = Purple 5 = Red 6 = Other (specify)

8. PO	DDS:	
	Shape: 1 = Straight 2 = Slightly Curved	3 = Curved
	End: 1 = Pointed (Alderman) 2 = Blunt	(Alaska)
		= Medium Green 3 = Dark Green (Alderman) = Blue 6 = Purple 7 = Yellow
	Surface: 1 = Smooth 2 = Rough	Surface: $1 = Shiny$ $2 = Dull$
		d Double 4 = Single, Double, & Triple 5 = Double & Triple 8 = Quad, Single, Double, Triple 9 = Quad
	CM. Length MM. W	idth (Between Sutures)  O S No. Seeds Per Pod
9. SE	EDS (95-100 Tenderometer):	
· ·	Color: 1 = Light Green 2 = Green 3 = Dark 6 = Brown 7 = Yellow green	Green 4 = Other (Specify) 5 = Yellow
Seive:	% 1 2 3 4	5 6 7 8 Average
SEEDS	S (Dry, Mature):	
	Shape: $1 = \text{Flattened } 2 = \text{Angular } 3 = \text{Oval}$	4 = Rounded 5 = Splashed 6 = Flecked 7 = Bicolored
	Surface: $1 = \text{Smooth}$ $2 = \text{Dimpled}$ $3 = \text{Wrinkled}$	Surface: $1 = Shiny$ $2 = Dull$
	Color Pattern: 1 = Monocolor 2 = Mottled 3	3 = Striped 4 = Dotted
	Primary Color Secondary Color	1 = Creamy - White 2 = Cream & Green 3 = Light Gr 4 = Medium Green 5 = Dark Green 6 = Blue-Gre 7 = Yellow 8 = Brown 9 = Red 10 = Gray 11 = Bl 12 = Salmon 13 = Purple 14 = Tan 15 = White 16 = Pink 17 = Yellow-Green
	Hilum Floor Color: $1 = \text{White}$ $2 = \text{Tan}$ $3 = \text{Black}$	Cotyledon Color: 1 = Green 2 = Yellow 3 = Orange 4 = Cream
	3 G Grams per 100 Seeds	

	10. DISEAS	E: (0=Not Tested:	1-Cussonfile	2.7			<del> </del>	
	(	(o-riot residu,	1-Susceptible;	2=Kesistant;	3=Moo	lerate Resistant;	4=Moderate Susceptible	5=Tolera
		P	LEASE INDICA	TE THE SPE	CIFIC RA	CE OR STRAIN	N TESTED	
	0	Fusarium Wilt -	Race 1		O		t (Near Wilt) - Race 2	
	0	Ascochyta Blight			0	Common Mos	aic	
	0	Bacterial Blight			0	Pea Enation M	losaic Virus	
	0	Downy Mildew		· .	0	Seedborne Mos	saic Virus	
	2	Powdery Mildew			0	Yellow Bean M	osaic Virus	
	0	Other (Specify)		· · · · · · · · · · · · · · · · · · ·	0	Leaf Roll Virus		
	0	Other (Specify)			0	Other (Specify)	<u>.</u>	
11.	INSECT:	(0=Not Tested; 1	=Susceptible;	2=Resistant;	3=Moder	ate Resistant; 4	=Moderate Susceptible;	5=Tolerant)
	O	Aphids			O	Other (SPECIF	<b>Y</b> )	٠

12. Additional information on any item above, or general comments that may aid in identification:

REPRODUCE LOCALLY. Include form number and date on all reproductions.  U.S. DEPARTMENT OF AGRICULTURE  AGRICULTURAL MARKETING SERVICE  SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION 3. VARIETY NAME
cerselo seeps B.V.	CEBECO MIG TUPOR
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	5. TELEPHONE (include area code) 6. FAX (include area code)
Uyf Hoevenlaan 4 - POB 10.000	+31-31-2188222 +31-31-2188235
5250 GA VLYMEN - HOLLAND	7. PVPO NUMBER 200400167
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate	block. If no, please explain. YES NO
9. Is the applicant (individual or company) a U.S. national or U.S. based compand if no, give name of country THE WETHERLANDS	ny? . YES X NO
10. Is the applicant the original breeder? If no, please answer the following:	X YES NO
<ul> <li>a. If original rights to variety were owned by individual(s):</li> <li>ls (are) the original breeder(s) a U.S. national(s)? If no, give name of</li> </ul>	country
L. If a line of violety to variety were owned by a company	YES X NO
<ul> <li>b. If original rights to variety were owned by a company:</li> <li>Is the original breeder(s) U.S. based company? If no, give name of c</li> </ul>	ountry THE NOTHER LANDS
11. Additional explantion on ownership (If needed, use reverse for extra space):	
PLEASE NOTE:	
Plant variety protection can be afforded only to owners (not licensees) who meet	one of the following criteria:
<ol> <li>If the rights to the variety are owned by the original breeder, that person mus of a country which affords similar protection to nationals of the U.S. for the s</li> </ol>	et be a U.S. national, national of a UPOV member country, or national ame genus and species.
. If the rights to the variety are owned by the company which employed the ori	

- If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by
  nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same
  genus and species.
- 3. If the applicant is an owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

The original breeder may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for

Public reporting burden for this collection of information is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter.

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definition.